



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, Florida
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Marvin Windows and Doors
Highway 11 West
P. O. Box 100
Warroad, MN 56763-0100

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Stormplus IZ4" 10 ft. Aluminum Clad Outswing Wood French Doors - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1397, "Clad 2¼-in. Outswing French Door Stormplus IZ4", sheets 1 through 8 of 8, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 09/28/2005 and latest revision "B1", dated 05/13/2010, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LIMITATIONS:

1. Only single fixed panel door is permitted with adhesive PL-400 (OSI) sealant without anchors.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 10-0621.02 and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
11/17/11

NOA No. 11-1019.06
Expiration Date: January 05, 2016
Approval Date: November 24, 2011
Page 1

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS


1. Manufacturer's die drawings and sections.
(Submitted under previous NOA's No's. 08-0917.10 and 05-1012.02)
2. Drawing No. 1397, "Clad 2¼-in. Outswing French Door Stormplus IZ4", sheets 1 through 8 of 8, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 09/28/2005 and latest revision "B1", dated 05/13/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No.10-0621.02)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with the manufacturer's parts drawings, installation diagram and marked-up drawings of outswing wood doors, prepared by Stork Twin City Testing Corp., Test Report No. STCT 113-96398.1, dated 07/18/2008, signed and sealed by Thomas Kolden, P. E.
(Submitted under previous NOA No.08-0917.10)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with the manufacturer's parts drawings, installation diagram and marked-up drawings of outswing wood doors, prepared by Architectural Testing, Inc., Test Report No. ATI 58623.01-210-18, dated 09/06/2005, signed and sealed by Joseph A. Reed, P. E.
(Submitted under previous NOA No.05-1012.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 06/10/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No.10-0621.02)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1019.06
Expiration Date: January 05, 2016
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Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS CONTUNIED)

2. Glazing complies with ASTM E1300-98/ 04
(Submitted under previous NOA No.10-0621.02)

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

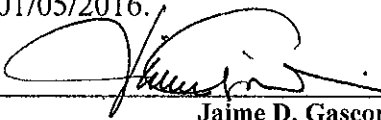
1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/12.

F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2010, dated 10/13/2011, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of independence and no financial interest, dated 10/13/2011, signed and sealed by Warren W. Schaefer, P. E.
3. Statement letter of conformance and compliance with the FBC-2007, dated 06/10/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No.10-0621.02)
4. Statement letter of independence and no financial interest, dated 06/10/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No.10-0621.02)
5. Laboratory addendum letter for Test Report No. **STCT 113-96398.1**, issued by Stork Twin City Testing Corp., dated 12/18/2008, signed and sealed by Thomas Kolden, P. E.
(Submitted under previous NOA No.08-0917.10)
6. Laboratory compliance letter for Test Report No. **STCT 113-96398.1**, issued by Stork Twin City Testing Corp., dated 07/18/2008, signed and sealed by Thomas Kolden, P. E.
(Submitted under previous NOA No.08-0917.10)
7. Proposal issued by BCCO, dated March 07, 2008, signed by Jaime D. Gascon, P. E.
(Submitted under previous NOA No.08-0917.10)
8. Laboratory compliance letter for Test Report No. **ATI 58623.01-210-18** issued by Architectural Testing, Inc., dated 09/06/05, signed and sealed by Joseph A. Reed, P. E.
(Submitted under previous NOA No.05-1012.02)
9. Proposal No. **04-0436** issued by BCCO, dated 10/12/04, signed by Manuel Perez, P. E.
(Submitted under previous NOA No.05-1012.02)

G. OTHERS

1. Notice of Acceptance No. **10-0621.02**, issued to Marvin Windows and Doors for their Series "Stormplus IZ4 10 ft. Aluminum Clad Outswing Wood French Doors - L.M.I.", approved on 10/13/2010 and expiring on 01/05/2016.


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1019.06
Expiration Date: January 05, 2016
Approval Date: November 24, 2011

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

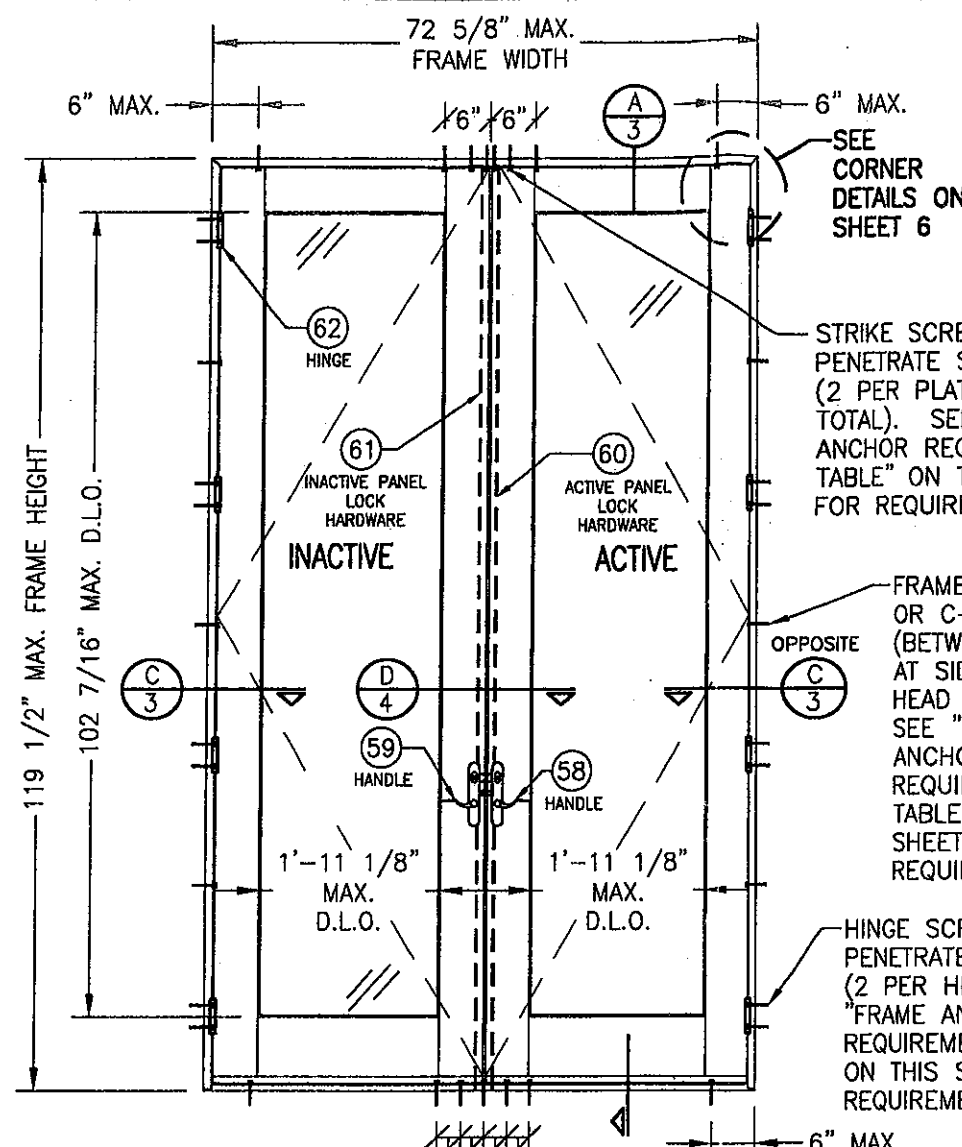
HINGE QUANTITY TABLE

DOOR HEIGHT	QTY REQUIRED
LESS THAN 86"	3
86" & GREATER	4

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/SILL SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
STRIKE SCREWS AT HEAD			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/2"	2"
HINGE SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

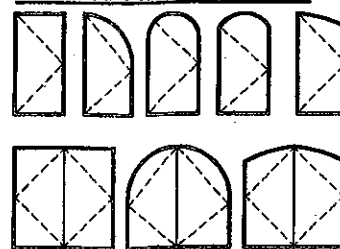
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).



EXTERIOR ELEVATION DOUBLE RECTANGULAR OUTSWING DOOR

SCALE: 1/2" = 1'-0"

APPROVED SHAPES

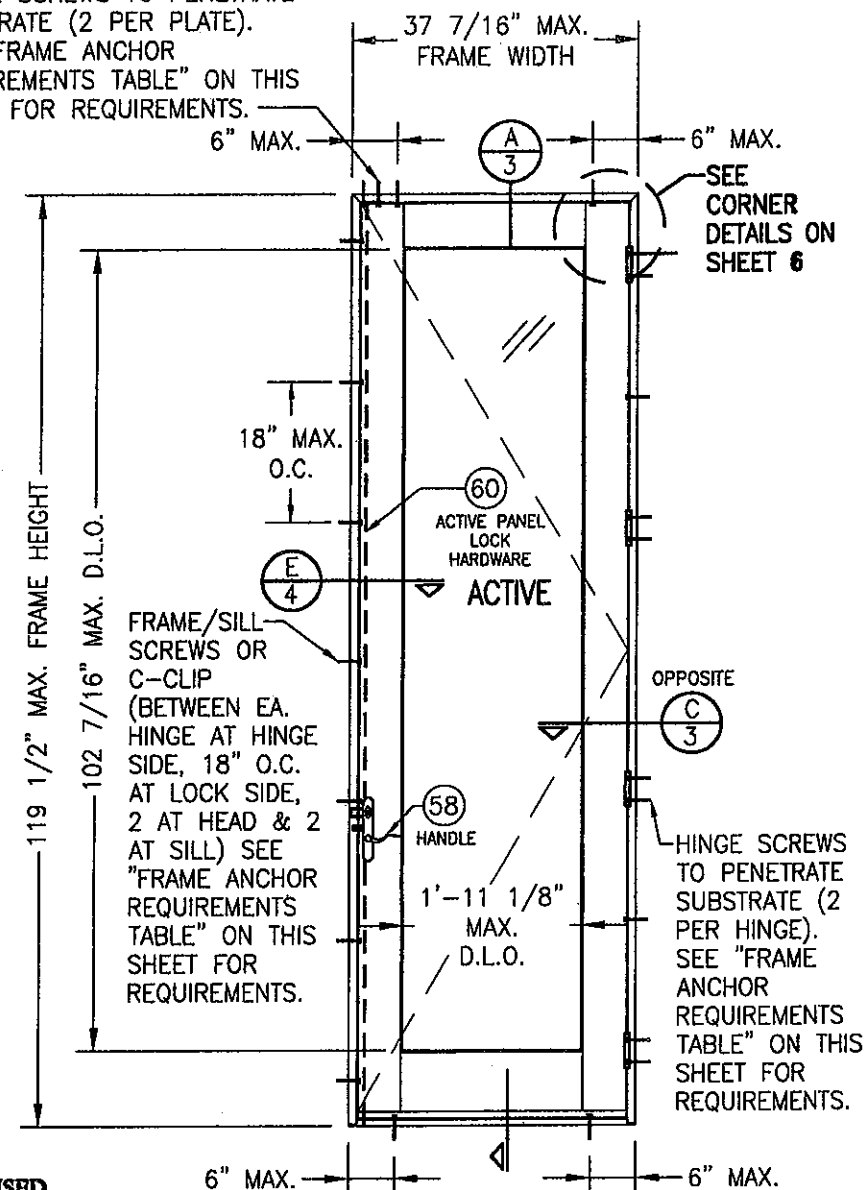


NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

CMU DOES NOT APPLY TO HEAD & SILL

STRIKE SCREWS TO PENETRATE SUBSTRATE (2 PER PLATE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.



EXTERIOR ELEVATION SINGLE RECTANGULAR OUTSWING DOOR

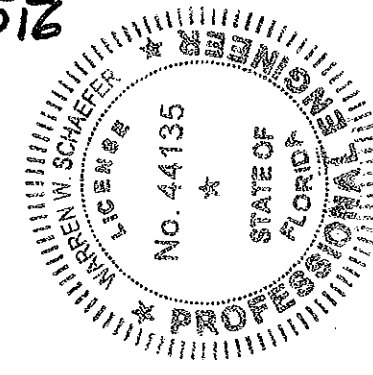
SCALE: 1/2" = 1'-0"

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 11-1019.06 Expiration Date 05/2016 By Miami Dade Product Control

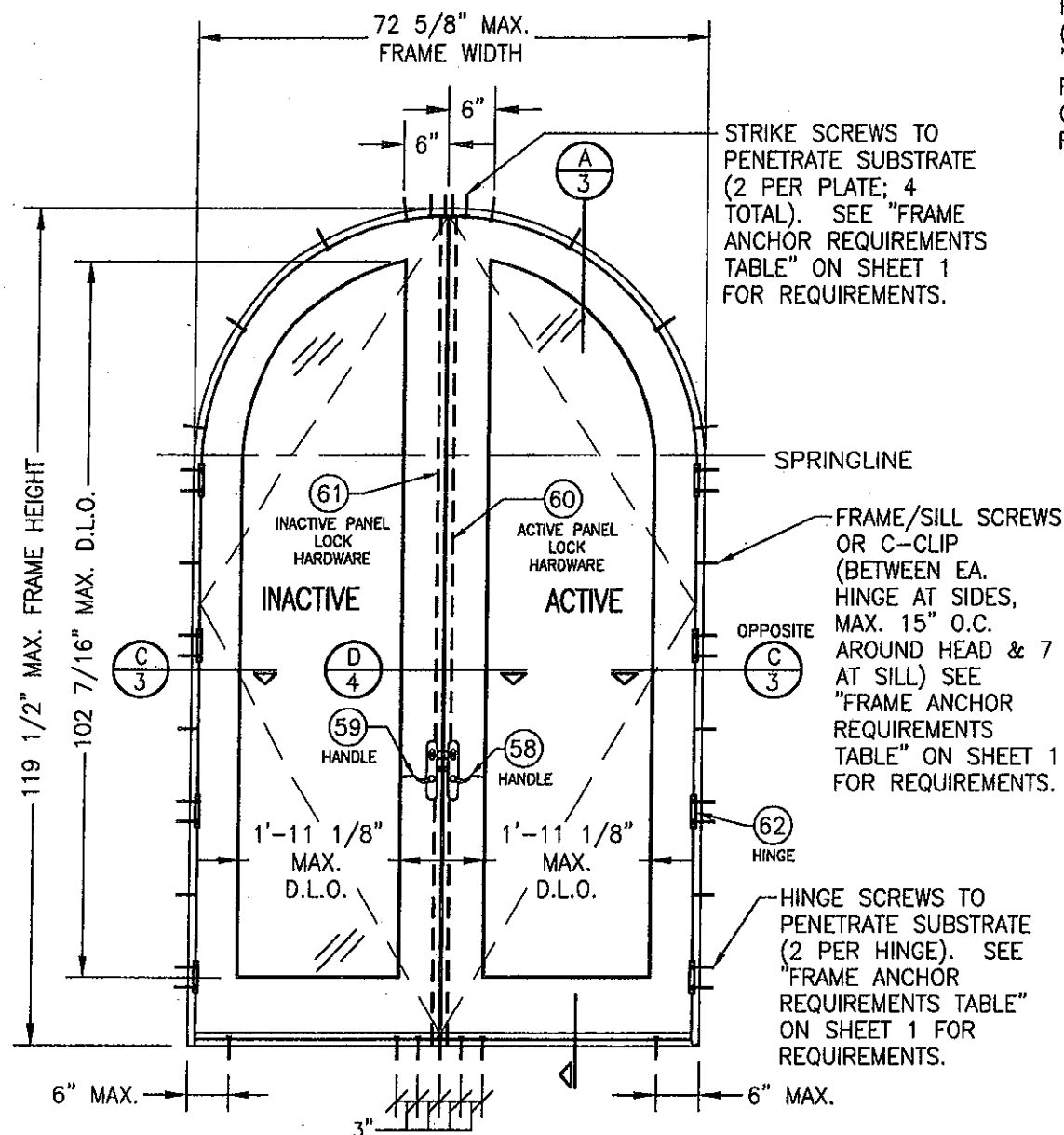
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 10-0621.02 Expiration Date 05/2016 By Miami Dade Product Control Division

ALLOWABLE DESIGN PRESSURE (ALL DOORS)

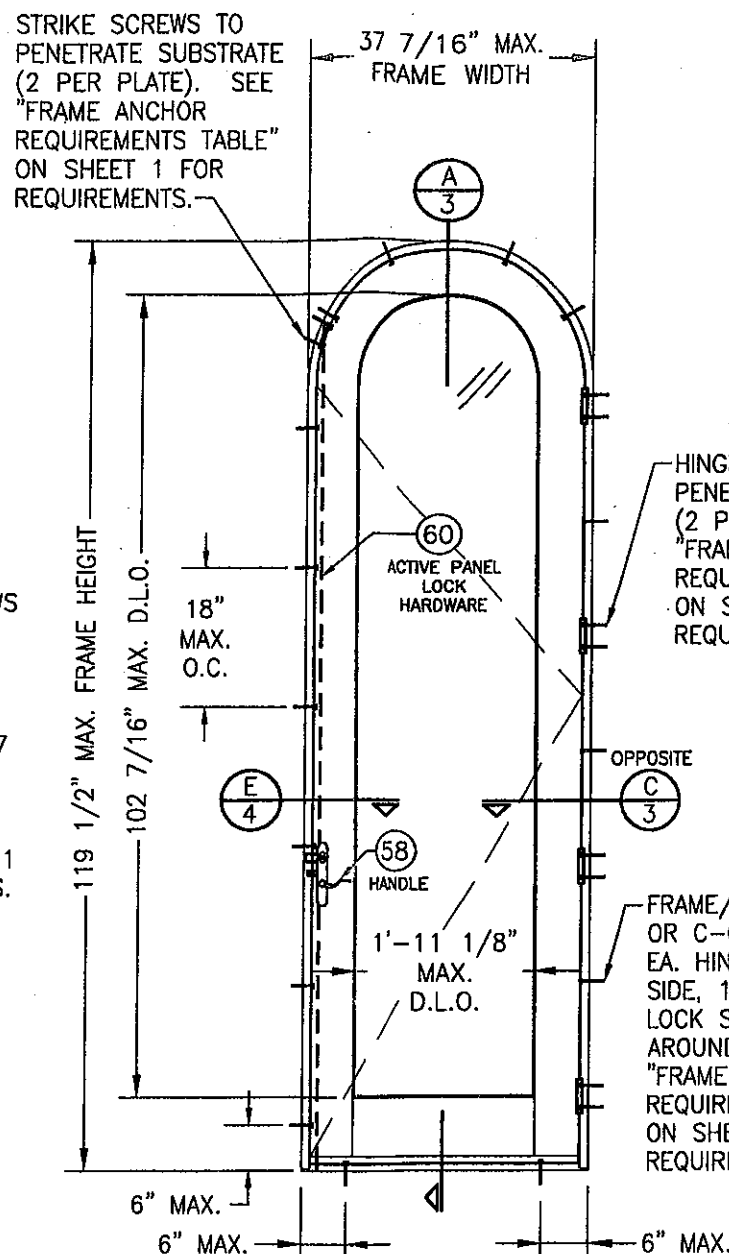
FRAME HEIGHT GREATER THAN 95.5"	+62/-68 PSF
FRAME HEIGHT 95.5" & LESS	+65/-80 PSF



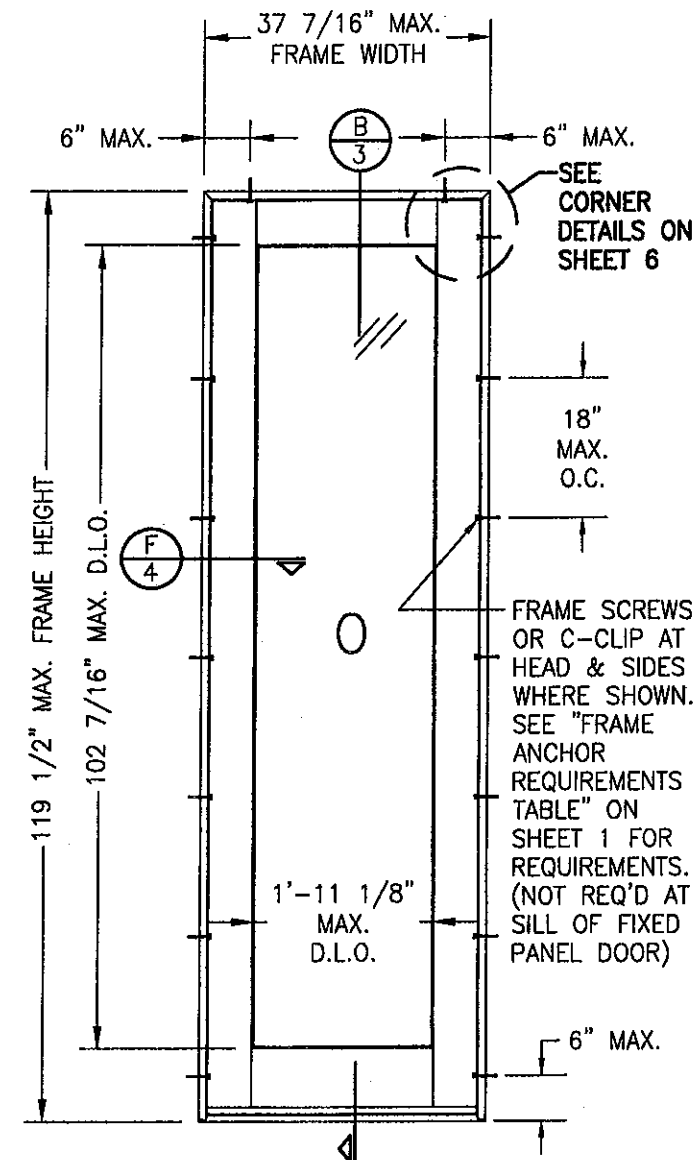
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DATE: 09/08/08	DATE: 09/28/08
BY: WRM	BY: WWS
REVISION DESCRIPTION	NO.
UPDATE TO PRESENT STANDARDS	A1
UPDATE PART PROFILES	A2
UPDATE TO PRESENT STANDARDS	B1
CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
MANUFACTURER	MARVIN WINDOWS & DOORS
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
	7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
DRAWING TITLE	CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4
CERTIFICATION	JUN 10 2010
DRAWING NO.	1397
REV.	B
SHEET NO.	1 OF 8



**EXTERIOR ELEVATION
DOUBLE HALF-ROUND OUTSWING DOOR**
SCALE: 1/2" = 1'-0"



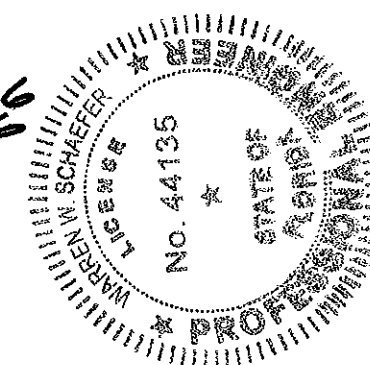
**EXTERIOR ELEVATION
SINGLE HALF-ROUND OUTSWING DOOR**
SCALE: 1/2" = 1'-0"



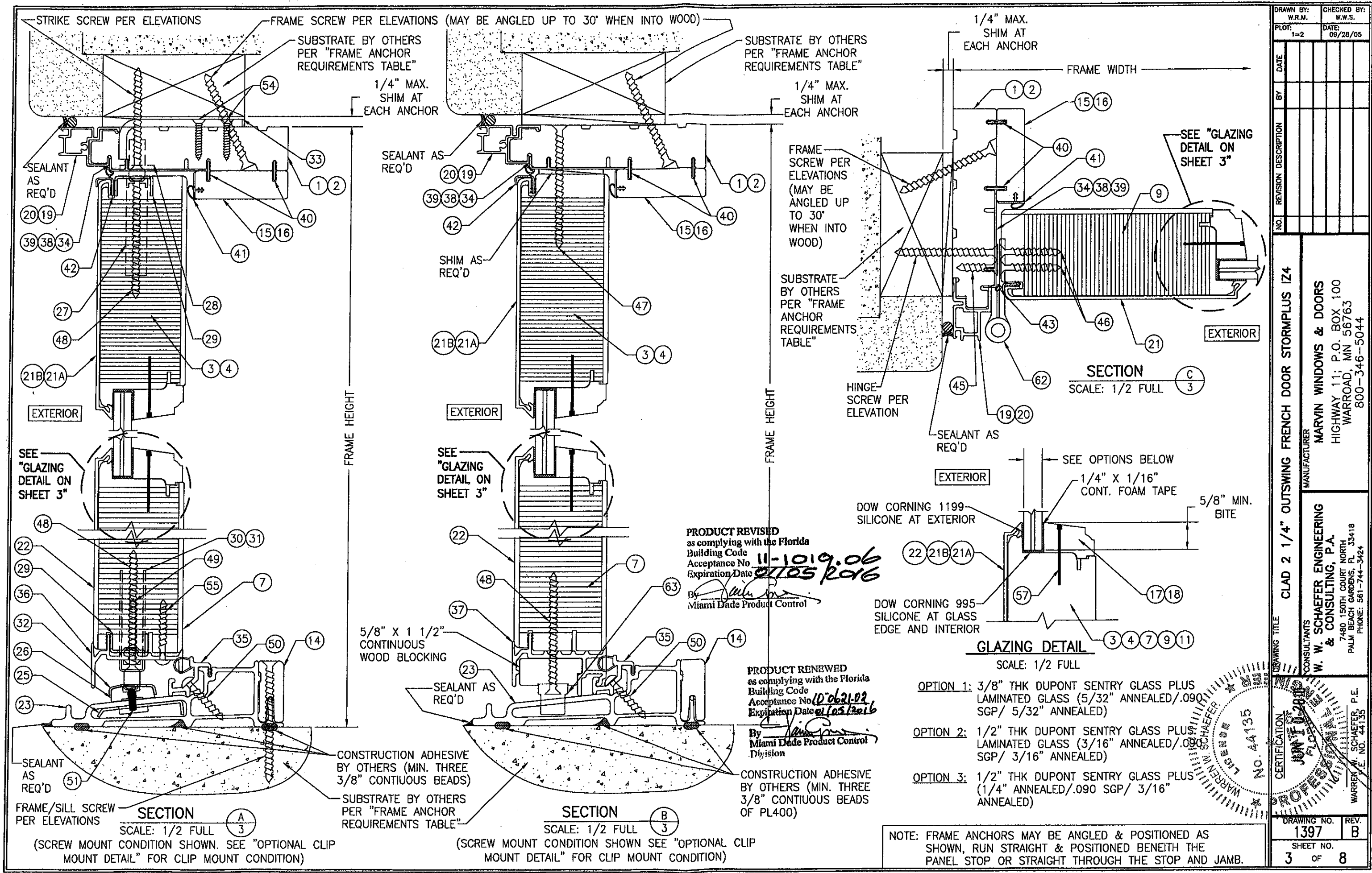
**EXTERIOR ELEVATION
SINGLE FIXED PANEL DOOR**
SCALE: 1/2" = 1'-0"
(RECTANGULAR DOOR SHOWN; SHAPES ALSO APPLY)

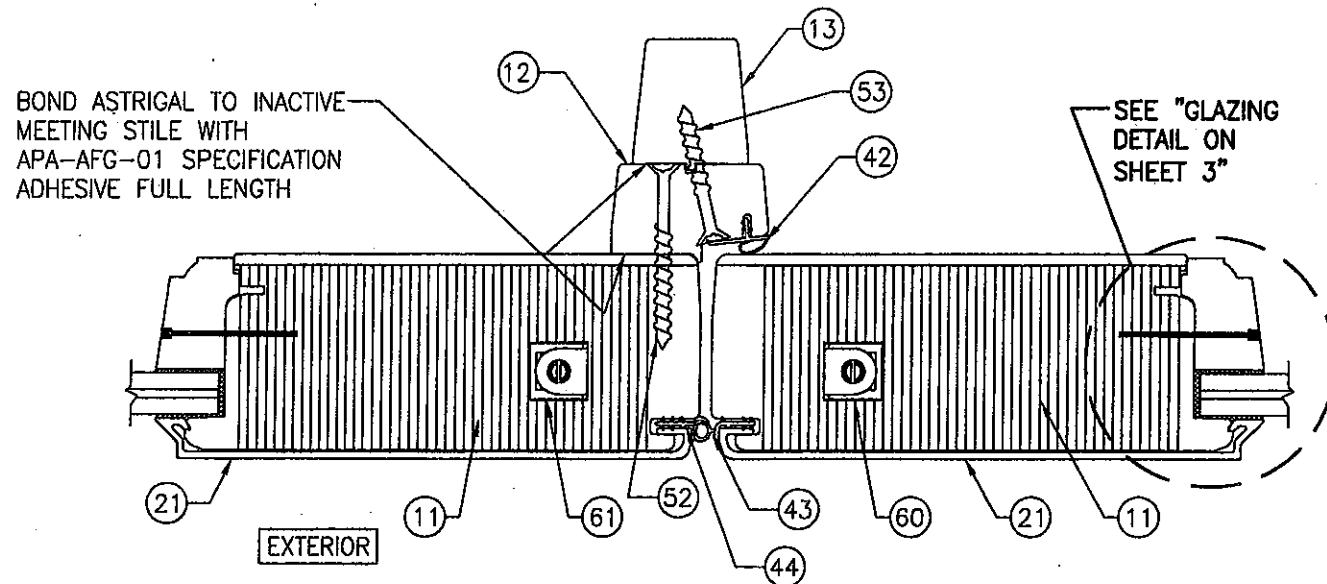
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-109.06
Expiration Date 01/05/2016
By *[Signature]*
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0621-02
Expiration Date 01/05/2016
By *[Signature]*
Miami Dade Product Control
Division

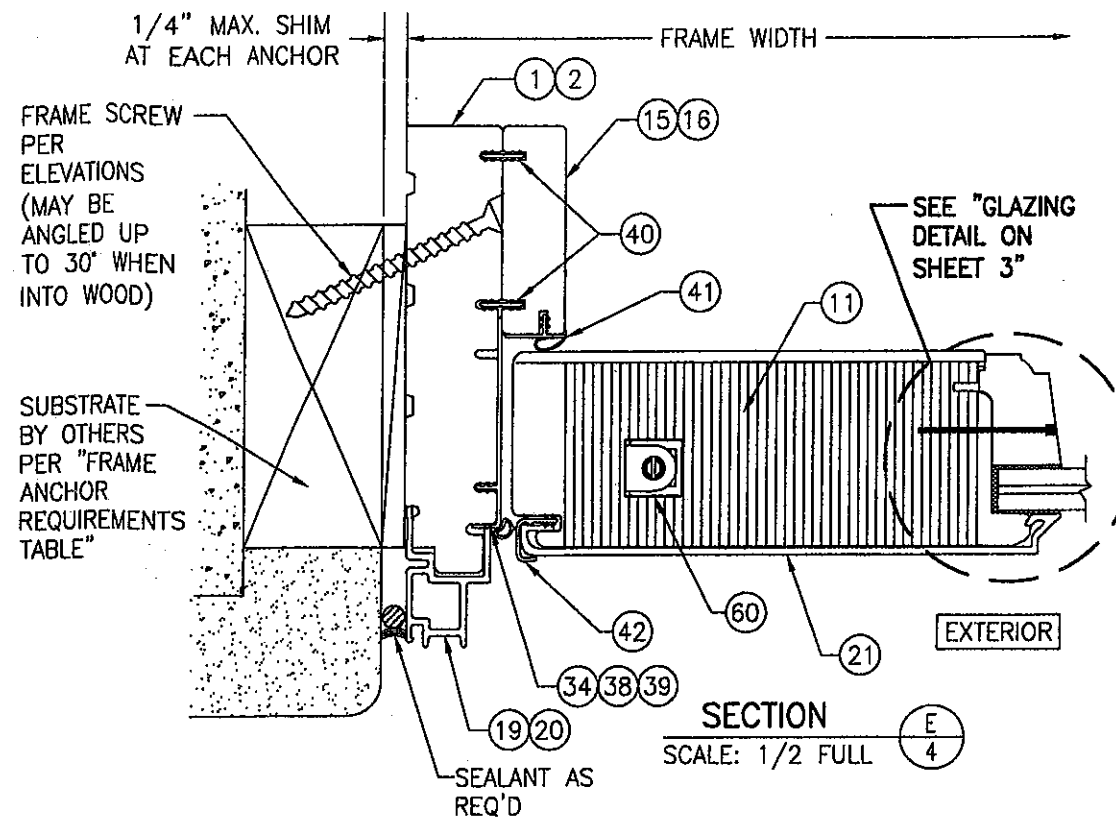


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 09/28/05	
NO.	REVISION	DESCRIPTION	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
DRAWING TITLE: CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: MARVIN WINDOWS & DOORS	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION	JUN 10 2010	WARREN W. SCHAEFER, P.E.	P.E. NO. 44135
DRAWING NO. 1397	REV. B	SHEET NO. 2 OF 8	

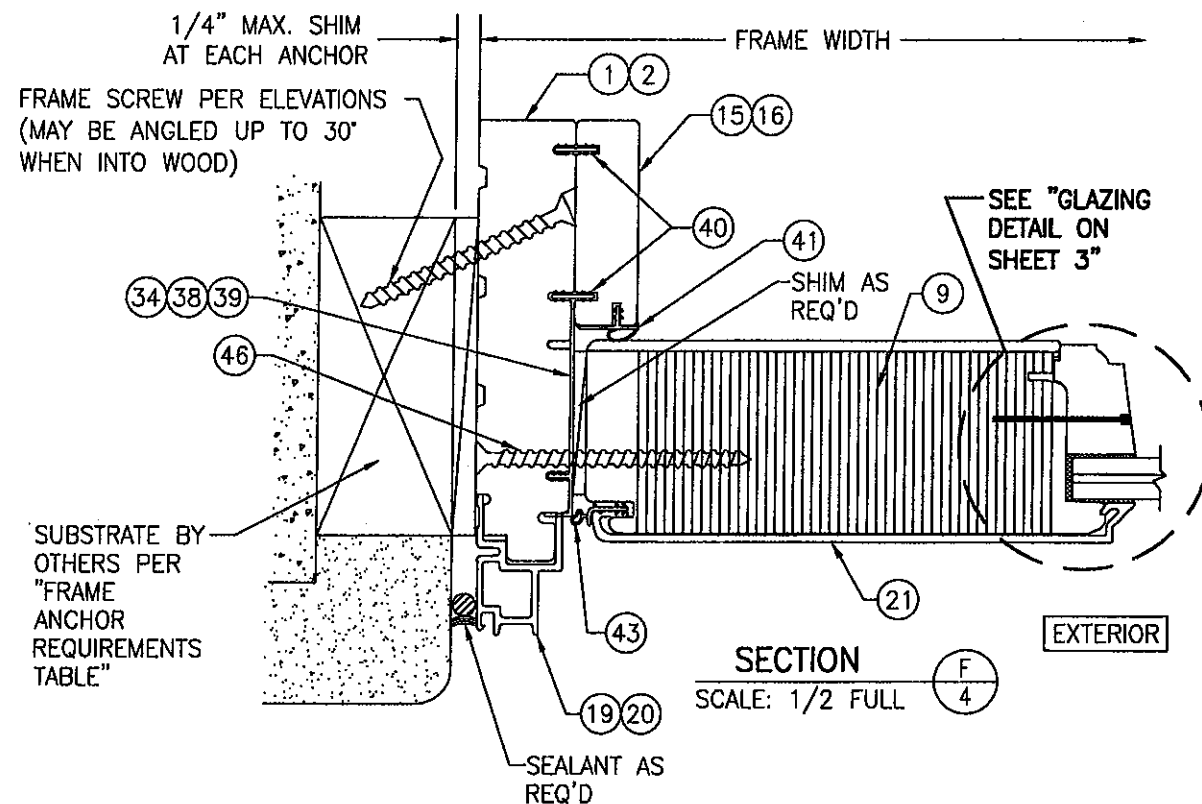




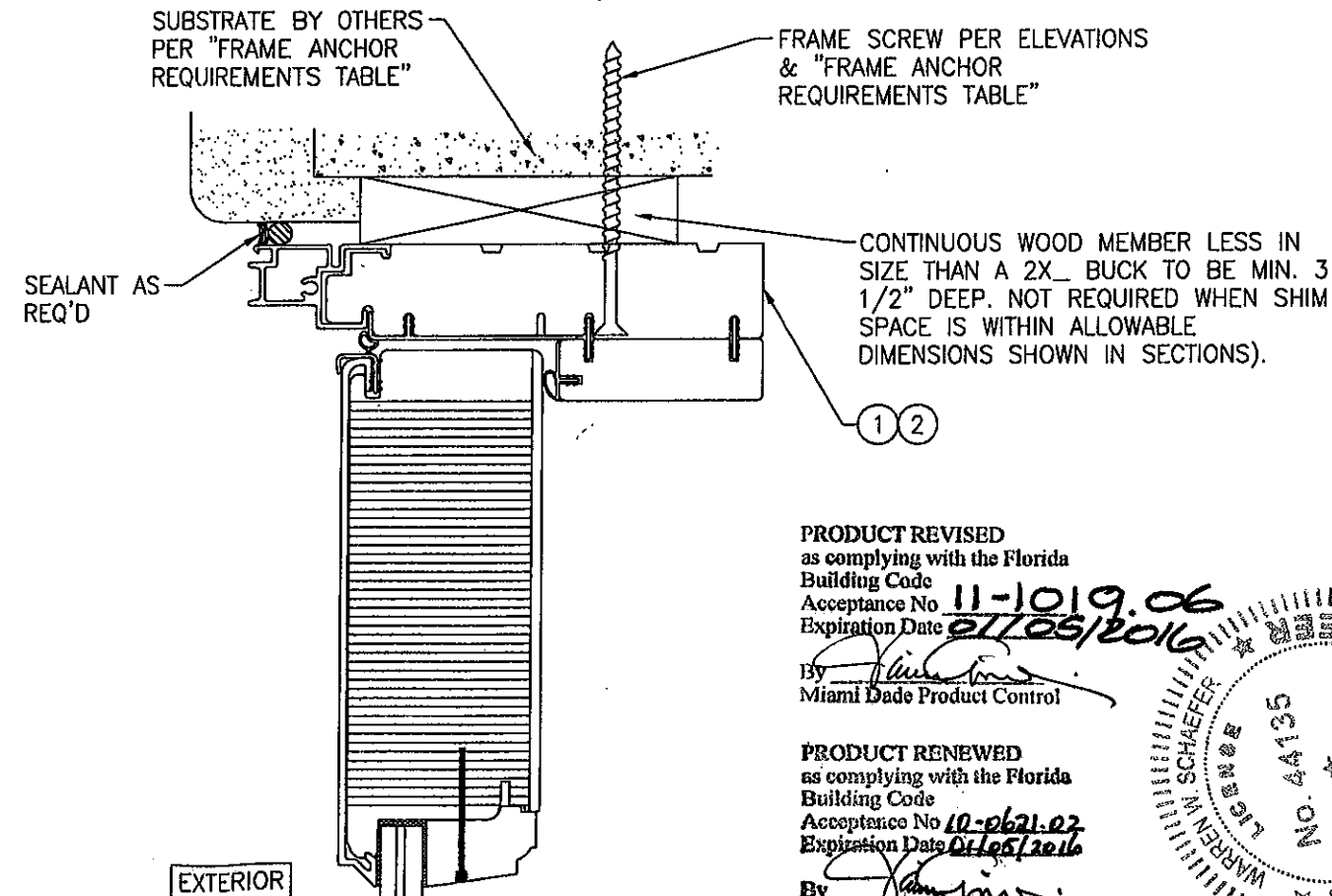
SECTION D
SCALE: 1/2 FULL



SECTION E
SCALE: 1/2 FULL



SECTION F
SCALE: 1/2 FULL

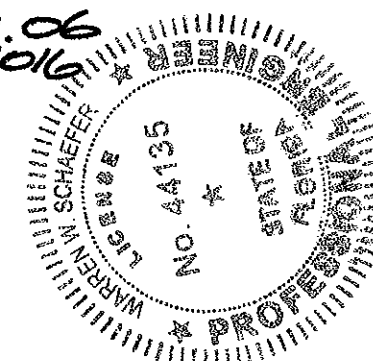


OPTIONAL DIRECT MOUNT DETAIL
TO BLOCK OR CONCRETE WITH SPACER OR SHIM
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NOTE: FRAME ANCHORS MAY BE ANGLED & POSITIONED AS SHOWN, RUN STRAIGHT & POSITIONED BENEITH THE PANEL STOP OR STRAIGHT THROUGH THE STOP AND JAMB.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1019.06
Expiration Date 07/05/2016
By [Signature]
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0621.02
Expiration Date 01/05/2016
By [Signature]
Miami Dade Product Control
Division



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/28/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION: JUN 10 2010		WARREN W. SCHAEFER, P.E. LICENSE NO. 44135	
DRAWING NO. 1397		REV. B	
SHEET NO. 4		OF 8	

MIN. 2X4 BUCK/FRAMING
& BUCK ATTACHMENT BY
OTHERS

NO. 8 X 1 1/2"
SCREW (4 PER CLIP;
2 PER SIDE)

(24)
CLIP LOCATED
PER ELEVATIONS

1/4" MAX. SHIM NEXT
TO EACH ANCHOR

NO. 8 X 3/4"
SCREW (2 PER CLIP)

EXTERIOR

OPTIONAL CLIP MOUNT DETAIL AT HEAD AND SIDES

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

ALUMINUM OR STEEL
SUPPORTING MEMBER
BY OTHERS; TO BE MIN.
3 1/2" DEEP PER "FRAME
ANCHOR REQUIREMENTS
TABLE" ON SHEET 1.

NO. 8 X 3/4"
SCREW (4 PER
CLIP; 2 PER SIDE)

(24)
CLIP LOCATED
PER ELEVATIONS

1/4" MAX. SHIM NEXT
TO EACH ANCHOR

NO. 8 X 3/4"
SCREW (2 PER CLIP)

EXTERIOR

OPTIONAL CLIP MOUNT DETAIL TO ALUMINUM OR STEEL

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

ALUMINUM OR STEEL
SUPPORTING MEMBER
BY OTHERS; TO BE MIN.
3 1/2" DEEP PER "FRAME
ANCHOR REQUIREMENTS
TABLE" ON SHEET 1.

SMS OR SELF TAPPING SCREW PER
"FRAME ANCHOR REQUIREMENTS
TABLE" ON SHEET 1 TO REPLACE ALL
FRAME, STRIKE & HINGE SCREWS
SHOWN IN ELEVATIONS. MAY BE AT
JAMB SURFACE OR THROUGH THE
STOP.

1/4" MAX. SHIM NEXT
TO EACH ANCHOR

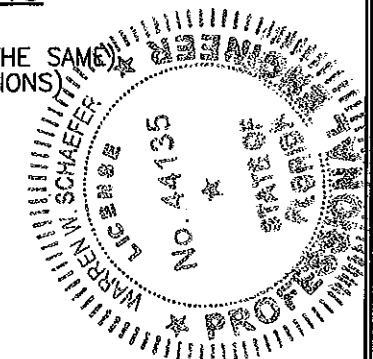
EXTERIOR

OPTIONAL DIRECT MOUNT DETAIL TO ALUMINUM OR STEEL

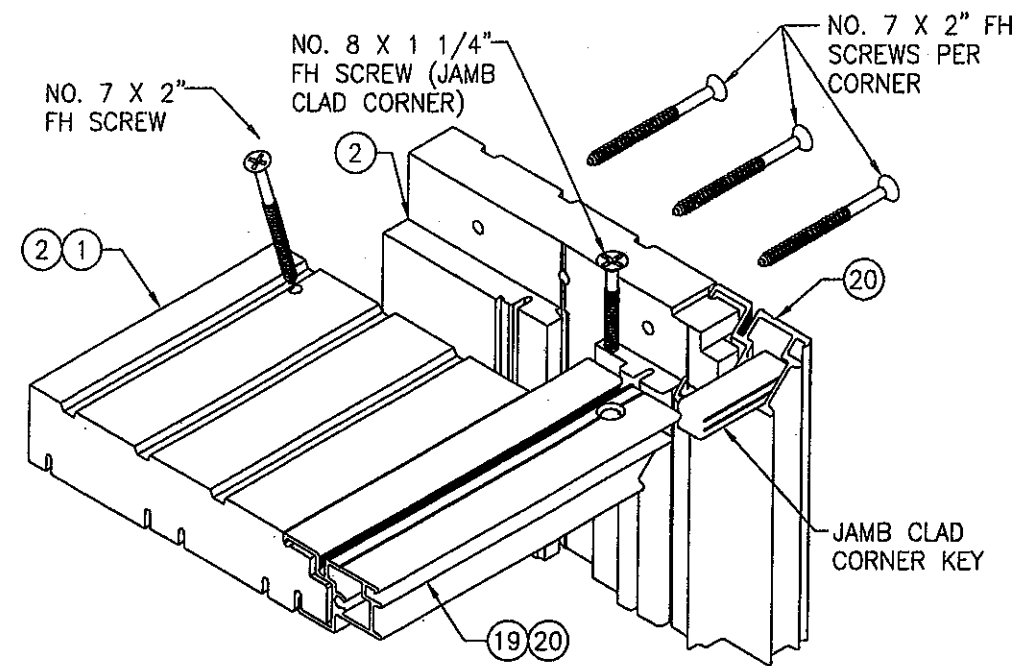
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1019.06
Expiration Date 01/05/2016
By *[Signature]*
Miami Dade Product Control

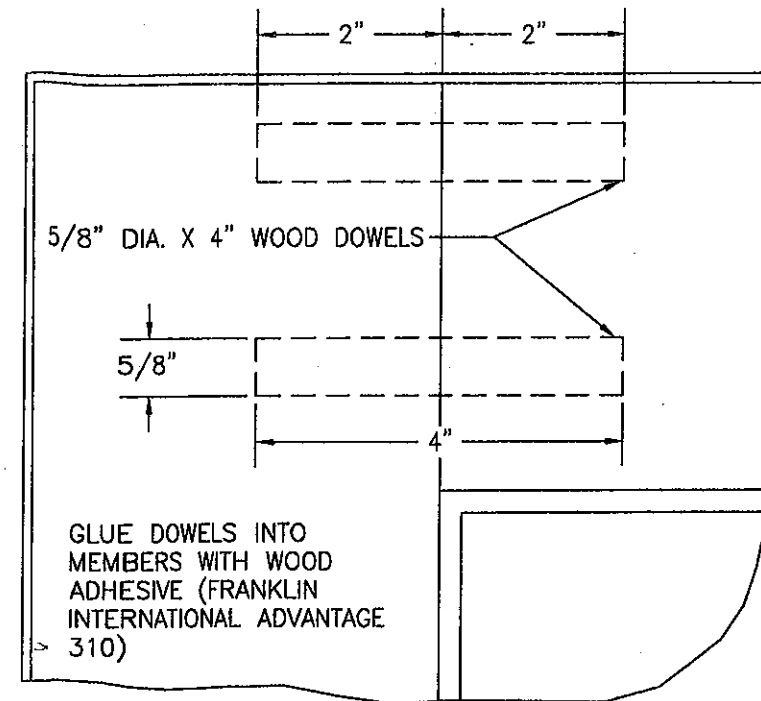
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0621.02
Expiration Date 01/03/2016
By *[Signature]*
Miami Dade Product Control
Division



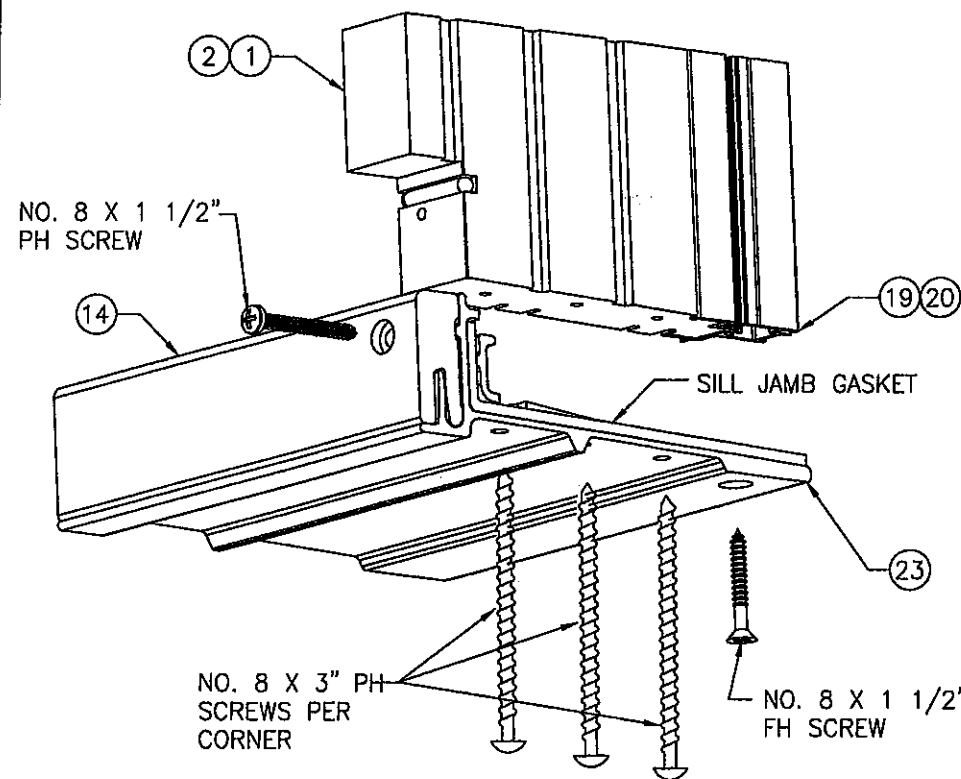
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/28/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION JUN 10 2010 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1397	
SHEET NO. 5 OF 8		REV. B	



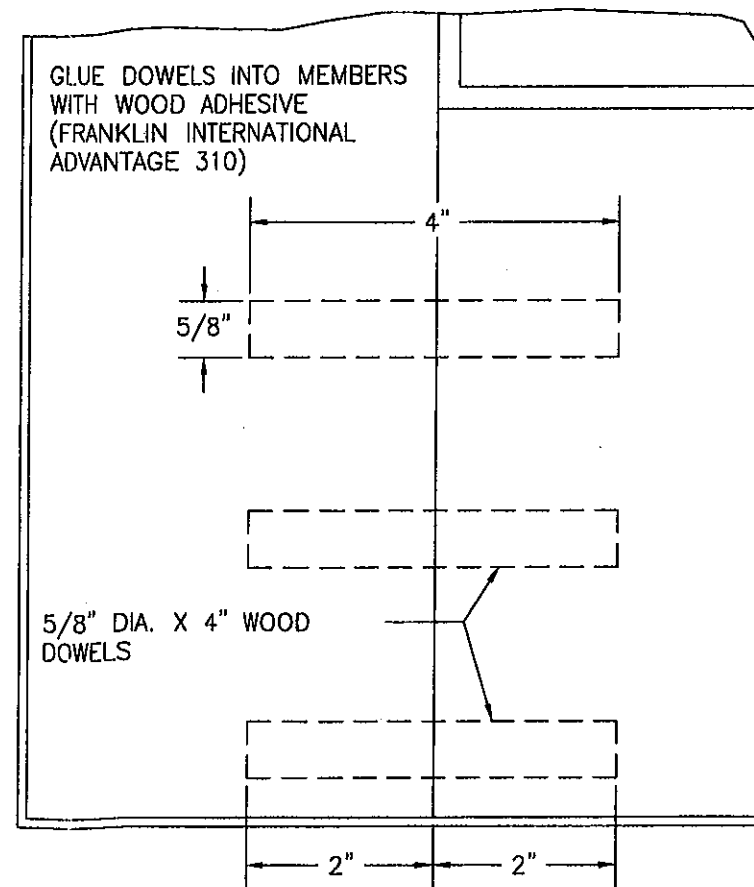
JAMB TO JAMB CORNER DETAIL



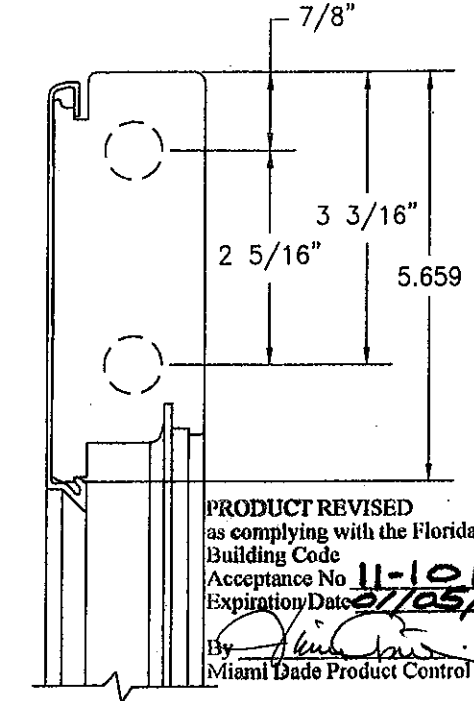
STILE TO TOP RAIL CORNER DETAIL



JAMB TO THRESHOLD CORNER DETAIL

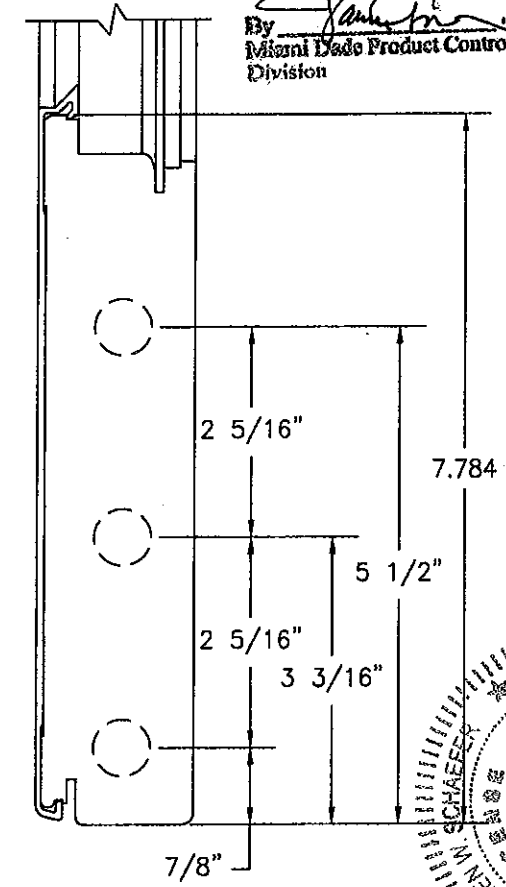


STILE TO BOTTOM RAIL CORNER DETAIL
SIMILAR AT WIDE BOTTOM RAIL EXCEPT 4 DOWELS ARE USED

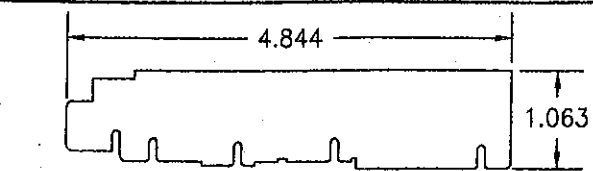


PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1019
Expiration Date 01/05/2016
By *[Signature]*
Miami Dade Product Control

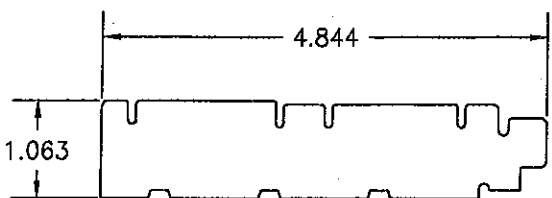
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 10-062102
Expiration Date 01/05/2016
By *[Signature]*
Miami Dade Product Control
Division



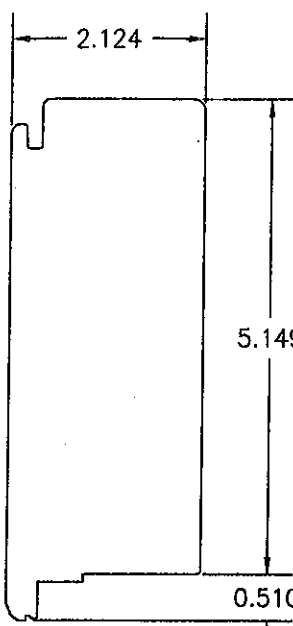
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/28/05	
NO.	REVISION	DESCRIPTION	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
DRAWING TITLE: CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS 124			
CONSULTANTS:		MANUFACTURER:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MARVIN WINDOWS & DOORS	
7480 150TH COURT NORTH		HIGHWAY 11; P.O. BOX 100	
PALM BEACH GARDENS, FL 33418		WARROAD, MN 56763	
PHONE: 561-744-3424		800-346-5044	
CERTIFICATION:		P.E. NO. 44135	
JUN 10 2006		WARREN W. SCHAEFER	
DRAWING NO. 1397		REV. B	
SHEET NO. 6		OF 8	



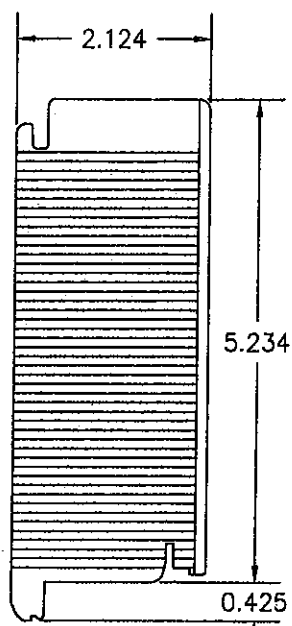
① SIDE AND HEAD JAMB - RADIUS



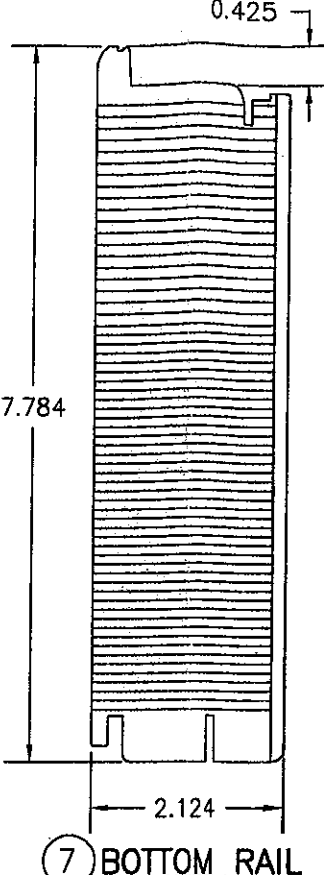
② SIDE AND HEAD JAMB - RECT.



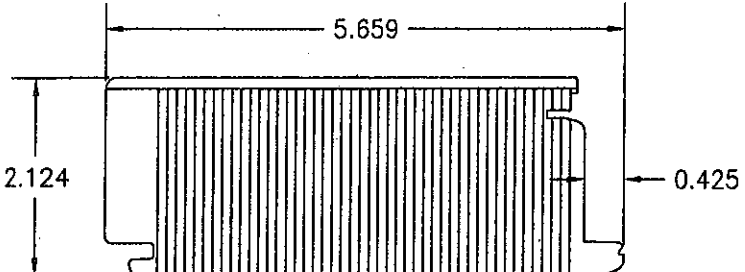
③ TOP RAIL - RADIUS



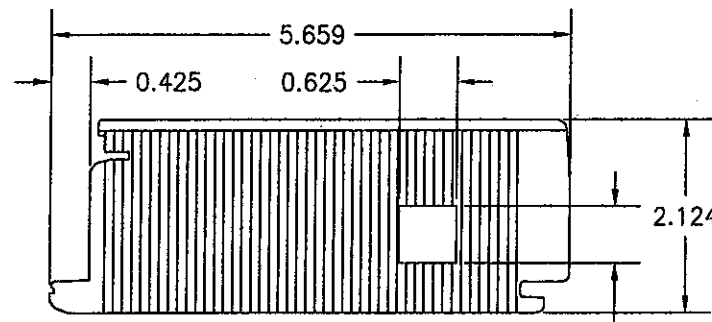
④ TOP RAIL - RECT.



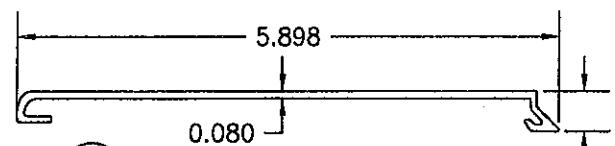
⑦ BOTTOM RAIL



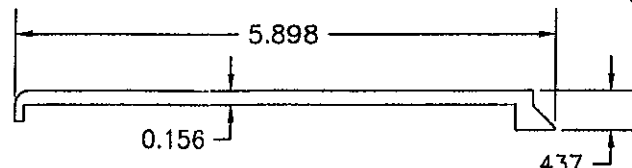
⑨ HINGE AND FIXED PANEL STILE



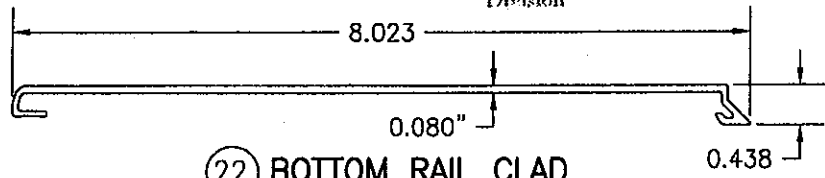
⑪ LOCK STILE



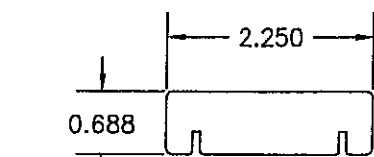
⑫A STILE & TOP RAIL CLAD - RECT.



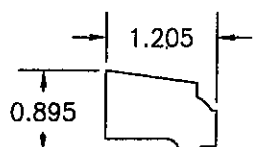
⑫B TOP RAIL CLAD - RADIUS



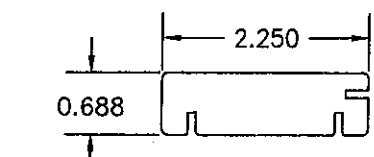
⑫ BOTTOM RAIL CLAD



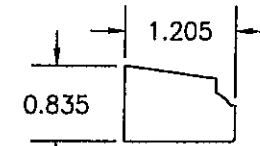
⑮ PANEL STOP - RADIUS



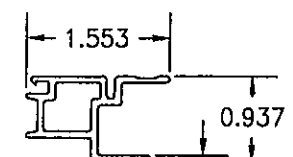
⑮ GLAZING STOP - RECT.



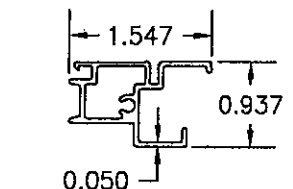
⑮ PANEL STOP - RECT.



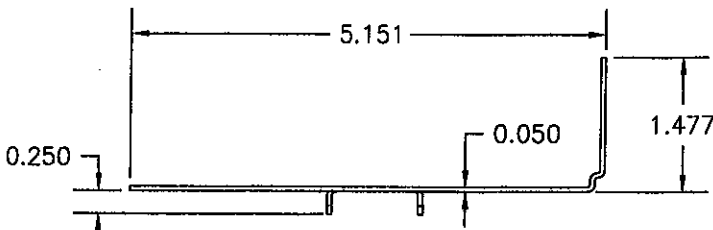
⑮ GLAZING STOP - RADIUS



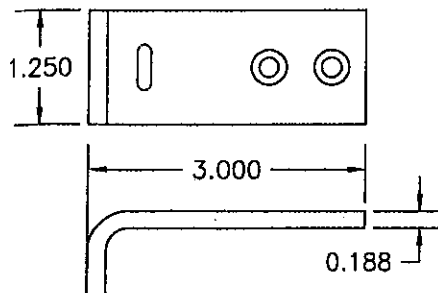
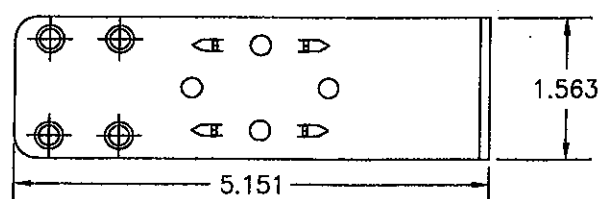
⑮ JAMB CLAD - RADIUS



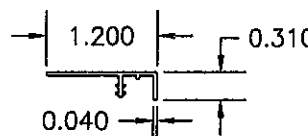
⑮ JAMB CLAD - RECT.



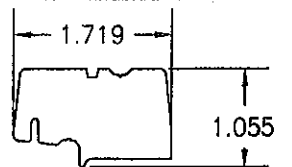
⑮ GALVANIZED STEEL C-CLIP



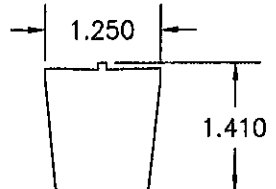
⑮ S.S. HEADER REINFORCEMENT BRACKET



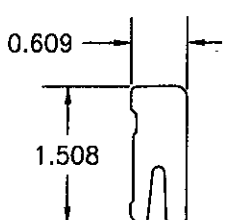
⑮ FRAME WEATHERSTRIP - RADIUS



⑮ ASTRAGAL



⑮ MULLION CASING COVER



⑮ THRESHOLD LINER

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 10-0621-02 Expiration Date 01/05/2016 By Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 11-1019-06 Expiration Date 07/05/2016 By Miami Dade Product Control

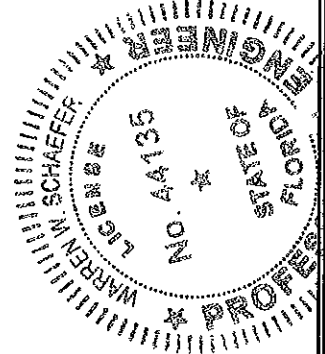


Table with drawing metadata including title 'CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS I24', manufacturer 'MARVIN WINDOWS & DOORS', consultant 'W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.', and drawing details like 'DRAWING NO. 1397', 'SHEET NO. 7 OF 8', and revision table.

PARTS LIST				PARTS LIST			
NO.	REF. NO.	DESCRIPTION	NOTES	NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS				FASTENERS			
1	00053994	SIDE & HEAD JAMB - RADIUS	*WOOD	45	-	NO. 12 X 1" S/STL SMS	2 PER HINGE INTO JAMB
2	00052938	SIDE & HEAD JAMB - RECT.	*WOOD	46	-	NO. 12 X 1 1/2" S/STL SMS	4 PER HINGE INTO STILE
3	00033507	TOP RAIL - RADIUS	*WOOD (FINGER JOINTED)	47	-	NO. 8 X 2 1/2" S/STL SMS	4" FROM CORNERS & MAX. 12" O.C.
4	00032950	TOP RAIL - RECT.	LVL WITH PINE VENEER	48	-	NO. 8 X 3" S/STL SMS	1 PER SHOOT BOLT GUIDE (ACTIVE PANEL); 2 PER SILL BOLT (FIXED PANEL)
7	00033711	BOTTOM RAIL	LVL WITH PINE VENEER	49	-	NO. 8 X 1 1/2" P.H. S/STL SMS	2.5" FROM ENDS & MAX. 9" O.C. WITH ADDITIONAL ONE AT LOCK THROW
9	00032950	HINGE & FIXED PANEL STILE	LVL WITH PINE VENEER	50	-	NO. 8 X 1 1/4" S/STL P.H. SMS	2 1/4" FROM ENDS & MAX. 11" O.C.
11	00033069	LOCK STILE	LVL WITH PINE VENEER	51	-	NO. 8 X 5/8" MACHINE SCREW	2 PER THRESHOLD STRIKE
12	00016785	ASTRAGAL	*WOOD	52	-	NO. 7 X 2" A/TF	3" FROM ENDS & MAX. 12" O.C.
13	00034006	MULLION CASING COVER	*WOOD	53	-	NO. 8 X 1 1/2" A/TF	1" FROM ENDS & MAX. 12" O.C.
14	00011114	THRESHOLD LINER	OAK	54	-	NO. 8 X 1" AB	2 PER HEADER REINFORCEMENT PLATE
15	00054053	PANEL STOP - RADIUS	*WOOD	55	-	NO. 8 X 1 1/2" P.H. S/STL SMS	1.5" FROM ENDS & MAX. 8.25" O.C.
16	00052944	PANEL STOP - RECT.	*WOOD	56	-	NO. 10 X 3" PH A SMS	2 PER HEAD STRIKE PLATE
17	00053530	GLAZING STOP - RECT.	*WOOD	57	-	1 1/2" BRAD NAIL	2" FROM ENDS & 10-12" O.C.
18	00033496	GLAZING STOP - RADIUS	*WOOD	HARDWARE			
19	00024571	JAMB CLAD - RADIUS	6063-T5 ALUMINUM	58	00037266	ACTIVE DOOR HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
20	00013503	JAMB CLAD - RECT.	6063-T5 ALUMINUM	59	00037267	INACTIVE DOOR HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
21A	00034683	STILE & TOP RAIL CLAD - RECT.	6063-T5 ALUMINUM	60	00013771	ACTIVE DOOR 3-POINT LOCK HARDWARE	ASHLAND
21B	00034899	TOP RAIL CLAD	6063-T5 ALUMINUM	61	00013966	INACTIVE DOOR 2-POINT LOCK HARDWARE	ASHLAND
22	00018088	BOTTOM RAIL CLAD	6063-T5 ALUMINUM	62	00034984	4.5 X 4.5 BALL BEARING HINGE	HAGER
23	00011107	THRESHOLD	PAINTED ULTREX (FIBERGLASS WITH MIN. Fy = 39 KSI)	63	00011232	SILL BOLT	ZINC DIE CAST (2 PER FIXED PANEL)
24	00036080	GALVANIZED STEEL C-CLIP (FY=50 KSI)	1 1/2" WIDE X 6 1/2" LONG X .050" THK	PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 11-1019.06 Expiration Date 07/05/2016 By [Signature] Miami Dade Product Control			
25	00027022	S.S. BACKER PLATE	MAY REPLACE FRAME FASTENERS PER ELEVATIONS.	PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 10-0621.02 Expiration Date 01/05/2016 By [Signature] Miami Dade Product Control			
26	00014912	GLASS REINFORCED ACETAL SILL STRIKE	1 AT EA. SILL STRIKE BELOW SILL; 2.141 X 2.563 X 0.063 THK	Division			
27	00014905	GLASS FILLED NYLON SHOOT BOLT GUIDE	1 AT EA. LOCK BAR; 1.07 X 2.82 X 0.3 THK	35 SILL WEATHERSTRIP			
28	00004621	S.S. HEAD STRIKE PLATE	1 FOR EA. LOCK BAR (HEADER); 2.75 X 1 X 0.0705 THK	36 ACTIVE PANEL SWEEP			
29	00026910	S.S. STILE END PLATE	1 AT EA. PANEL (TOP AND BOTTOM); 0.933 X 3.547 X 0.063 THK	37 STATIONARY PANEL SWEEP			
30	00015312	S.S. SHOOT BOLT GUIDE REINFORCEMENT	1 AT EA. PANEL (BOTTOM)	38 FRAME WEATHERSTRIP-RADIUS			
31	00015314	GLASS FILLED NYLON SHOOT BOLT GUIDE	1 AT EA. PANEL (BOTTOM)	39 FRAME WEATHERSTRIP-RECT.			
32	00027702	S.S. SILL STRIKE	1 AT EA. LOCK BAR; 0.250 X 2.661 X .048 THK	40 CONNECTING BARB			
33	00046364	S.S. HEADER REINFORCEMENT	1 FOR EA. LOCK BAR (HEADER) 1.250 X 3.000 X .188 THK	41 WEATHERSTRIP			
34	00053999	FRAME WEATHERSTRIP - RADIUS	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)	42 PANEL COVER WEATHERSTRIP			
35	00053351	SILL WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)	43 PANEL WEATHERSTRIP			
36	00053439	ACTIVE PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)	44 INACTIVE WEATHERSTRIP			
37	00050176	STATIONARY PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)	63 SILL BOLT			
38	00054010	FRAME WEATHERSTRIP - RADIUS	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				
39	00052956	FRAME WEATHERSTRIP - RECT.	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				
SEALS AND SEALANTS							
40	00005685	PANEL STOP CONNECTING BARB	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				
41	00005648	WEATHERSTRIP (RECT. DOOR ONLY)	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				
42	00013512	WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				
43	00013513	WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				
44	00052828	INACTIVE WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)				

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY MARVIN WINDOWS & DOORS TO SELECT.

35 SILL WEATHERSTRIP

36 ACTIVE PANEL SWEEP

37 STATIONARY PANEL SWEEP

38 FRAME WEATHERSTRIP-RADIUS

39 FRAME WEATHERSTRIP-RECT.

40 CONNECTING BARB

41 WEATHERSTRIP

42 PANEL COVER WEATHERSTRIP

43 PANEL WEATHERSTRIP

44 INACTIVE WEATHERSTRIP

63 SILL BOLT

CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4

MANUFACTURER

MARVIN WINDOWS & DOORS

HIGHWAY 11; P.O. BOX 100

WARROAD, MN 56763

800-346-5044

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P.E. NO.